



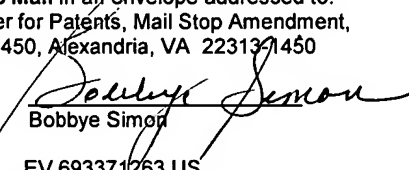
03-06-06 IFW 1732

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant No. : 10/521,635
Applicant : K. Tommy Haraldsson
Filed : October 26, 2005
TC/A.U. : 1732
Examiner : Not assigned
For : "Fabrication of 3D Photopolymeric Devices"
Docket No. : 72-03
Customer No.: 23713

Confirmation No. 2635

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Commissioner for Patents
P.O. Box 1450
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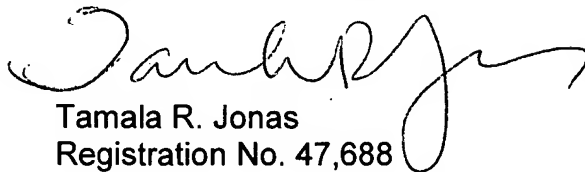
Sir:

The Examiner is respectfully requested to consider the references, copies enclosed, which may qualify as prior art. For the Examiner's convenience, the references are listed on the attached substitute for Patent and Trademark Office form PTO-1449. Pursuant to 37 C.F.R. 1.98(a)(2)(ii), copies of cited U.S. patents and U.S. patent application publications are not included, but will be provided upon request.

This information is cited in a spirit of forthrightness and cooperation to enable the applicants to obtain that measure of protection for the invention to which there is entitlement. However, no representation is made that the listed art actually qualifies as prior art under the patent statute and the mere use of PTO-1449 is not an admission that all listed references are prior art. No representation is made that applicants know of the best art.

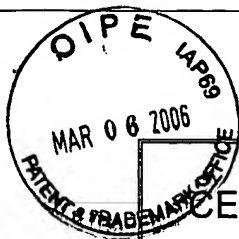
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Respectfully submitted,



Tamala R. Jonas
Registration No. 47,688

GREENLEE, WINNER AND SULLIVAN, P.C.
4875 Pearl East Circle, Suite 200, Boulder, Colorado 80301
Telephone: (303) 499-8080; Facsimile: (303) 499-8089
Attorney Docket No. 72-03
TRJ:bds:March 3, 2006



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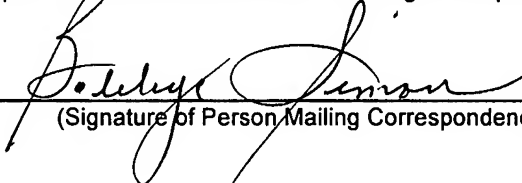
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STATEMENT BY APPLICANT**

Application Number	10/521,635
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First Named Inventor	Haraldsson
Art Unit	1732
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Attorney Docket Number	72-03

GWS 3/3/2006

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
	1	6,821,475	11/23/2004	Beebe et al.	
	2	6,517,977	02/11/2003	Resnick et al.	
	3	6,509,085	01/21/2003	Kennedy	
	4	6,488,872	12/03/2002	Beebe et al.	
	5	6,136,212	10/24/2000	Mastrangelo et al.	
	6	5,263,130	11/16/1993	Pomerantz et al.	
	7	5,171,490	12/15/1992	Fudim	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T ²
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	REFERENCE	T ²
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	8	Anderson et al. (2000) "Fabrication of Topologically Complex Three-Dimensional Microfluidic Systems in PDMS by Rapid Prototyping," <i>Anal. Chem.</i> 72(14):3158-3164	
	9	Becker et al. (2002) "Polymer Microfluidic Devices," <i>Talanta</i> 56(2):267-287	
	10	Becker et al. (2000) "Hot Embossing as a Method for the Fabrication of Polymer High Aspect Ratio Structures," <i>Sensors and Actuators A-Physical</i> 83(1-3):130-135	
	11	Beebe et al. (2000) "Functional Hydrogel Structures for the Autonomous Flow Control Inside Microfluidic Channels," <i>Nature</i> 404:588-590	
	12	Beebe et al. (2000) "Microfluidic Tectonics: A Comprehensive Construction Platform for Microfluidic Systems," <i>Proc. Nat. Acad. Sci. USA</i> 97(25):13488-13493	
	13	Chatwin et al. (1998) "UV Microstereolithography System that Uses Spatial Light Modulator Technology," <i>Appl. Optics</i> 37(32):7514-7522	
	14	Cumpston et al. (1999) "Two-Photon Polymerization Initiators for Three-Dimensional Optical Data Storage and Microfabrication," <i>Nature</i> 398:51-54	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	15	De et al. (2002) "Equilibrium Swelling and Kinetics of pH-Responsive Hydrogels: Models, Experiments, and Simulations," <i>J. Microelectromechanical Sys.</i> 11(5):544-555	
	16	Duffy et al. (1998) "Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane)," <i>Anal. Chem.</i> 70(23):4974-4984	
	17	Hanemann et al. (1997) "Micromolding and Photopolymerization," <i>Adv. Mat.</i> 9(11):927-929	
	18	Hasselbrink et al. (2002) "High-Pressure Microfluidic Control in Lab-on-a-Chip Devices Using Mobile Polymer Monoliths," <i>Anal. Chem.</i> 74(19):4913-4918	
	19	Hutchinson et al. (2004) "Robust Polymer Microfluidic Device Fabrication Via Contact Liquid Photolithographic Polymerization (CliPP)," <i>Lab on a Chip</i> 4(6):658-662	
	20	Khoury et al. (2002) "Ultra Rapid Prototyping of Microfluidic Systems Using Liquid Phase Photopolymerization," <i>Lab On a Chip</i> 2(1):50-55	
	21	Kirby et al. (2002) ""Voltage-Addressable on/off Microvalves for High-Pressure Microchip Separations," <i>J. Chromatography A</i> 979(1-2):147-154	
	22	Liew et al. (2001) "Fabrication of SiCN Ceramic MEMS using Injectable Polymer-Precursor Technique," <i>Sensors and Actuators A – Physical</i> 89(1-2):64-70	
	23	Liew et al. (2002) "Fabrication of SiCN MEMS by Photopolymerization of Pre-Ceramic Polymer," <i>Sensors and Actuators A – Physical</i> 92(2-3):120-134	
	24	Liew et al. (2003) "Processing and Characterization of Silicon Carbon-Nitride Ceramics: Application of Electrical Properties Towards MEMS Thermal Actuators," <i>Sensors and Actuators A – Physical</i> 103(1-2):171-181	
	25	Love et al. (2001) "Fabrication of Three-dimensional Microfluidic Systems by soft Lithography," <i>MRS Bull.</i> 26(7):523-528	
	26	Luo et al. (2002) "Synthesis of a Novel Methacrylic Monomer-Iniferter and Its Application in Surface Photografting on Crosslinked Polymer Substrates," <i>J. Polym. Sci. Part A – Polym. Chem.</i> 40:1885-1891	
	27	Luo et al. (2002) "Surface-Initiated Photopolymerization of Poly(ethylene glycol) Methyls Ether Methacrylate on a Diethyldithiocarbamate-Mediated Polymer Substrate," <i>Macromol.</i> 35:2487-2493	
	28	Luo et al. (2000) "UV-Induced Radical Grafting of Hydrophilic Monomers from Dithiocarbamated Polymer Surfaces," <i>Polymer Preprints</i> 41:1728-1729	
	29	Madou, M.J. (1997) <u>Fundamentals of Microfabrication: The Science of Miniaturization</u> , 2 nd ed., CRC Press: Boca Raton, pp. 301-302	
	30	Neckers et al. (1996) "Photochemistry and Photophysics of Hydroxyfluorones and Xanthenes," <i>J. Photochem. Photobiol. A Chem.</i>	
	31	Okamoto et al. (1999) "Ultraviolet-cured Microlens Arrays," <i>Applied Optics</i> 38(14):2991-2996	

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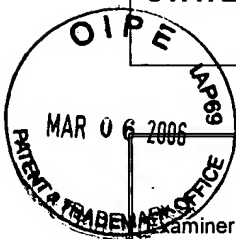
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32	Otsu, T. (2000) "Iniferter Concept and Living Radical Polymerization," <i>J. Polymer Sci. Part A – Polym. Chem.</i> 38:2121-2136	
33	Perters et al. (1999) "Control of Porous Properties and Surface Chemistry in 'Molded' Porous Polymer Monoliths Prepared by Polymerization in the Presence of TEMPO," <i>Macromol.</i> 32(19):6377-6379	
34	Quake et al. (2000) "From Micro- to Nanofabrication with Soft Materials," <i>Science</i> 290:1536-1540	
35	Sebra et al. (2002) "3D-Microfluidic Devices Using Liquid Polymer Precursors," <i>Polymer Preprints</i> 43:132-133	
36	Sellergren et al. (2002) "Layer-by-Layer Grafting of Molecularly Imprinted Polymers via Iniferter Modified Supports," <i>Adv. Mat.</i> 14:1204-1208	
37	Seok et al. (1998) "Synthesis and Ceramic Conversion Reactions of Decaborane-CERASET Polymers: New Processable Precursors to SiC/Si3N4/BN Ceramics," <i>Bull. Korean Chem. Soc.</i> 19(12):1398-1402	
38	Tripp et al. (2001) "Grafted Microporous Polymer Monolithic Disks: A New Format of Scavengers for Solution-Phase Combinatorial Chemistry," <i>J. Combinatorial Chem.</i> 3(2):216-233	
39	Ward et al. (2001) "Micropatterning of Biomedical Polymer Surface by Novel UV Polymerization Techniques," <i>J. Biomed. Mat. Res.</i> 56:351-360	
40	Whitesides et al. (2001) "Flexible Methods for Microfluidics," <i>Physics Today</i> 54(6):42-48	
41	Willson Research Group; http://Willson.com.utexas.edu/Research/Sub_Files/SFIL/Process/index.htm accessed February 8, 2006.	
42	Wu et al. (2003) "Fabrication of Complex Three-Dimensional Microchannel Systems In PDMS," <i>J. Am. Chem. Soc.</i> 125(2):554-559	
43	Xia et al. (1998) "Soft Lithography," <i>Ann. Rev. Mat. Sci.</i> 28:153-184	
44	Xia et al. (1998) "Soft Lithography," <i>Angew Chem. Int. Ed.</i> 37:550-575	
45	Yang et al. (2001) "Fabrication of High Performance Ceramic Microstructures from a Polymeric Precursor Using Soft Lithography," <i>Adv. Mat.</i> 13(1):54-58	

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